

8500209

THE WATCHED SCHAMES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Dairyland Seed Co., Inc.

Colherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to extude others from selling the variety, or offering it for sale, or reproducing it, importing it, or exporting it, or using it in producing a hybrid or different ty therefrom, to the extent provided by the Plant Variety Protection Act 1542, as amended, 7 u.s.c. 2321 et seq.)

SOYBEAN

'DSR-287'

In Esstimony Withereof, I have hereunto set my hand and caused the seal of the Plant Variety Exotection Office to be affixed at the City of Washington, D. C. this 30th day of January in the year of our Lord one thousand nine hundred and eighty-seven.

Secretary of Agriculture

duce

Land H. Evans Commissioner

Plant Variety Protection Office Agricultural Marketing Service

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARI	be iss held	if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF APPLICANT(S)		2. TEMPORARY DESIGNATION	3. V	ARIETYNAME	
Dairyland Seed Company, Inc	26502	D	OSR-287		
4. ADDRESS (Street and No. or R.F.D. No., City, Sta	5. PHONE (Include area code)		FOR OFFICIAL USE ONLY		
3570 Hwy H., P. O. Box 958		PVP	O NUMBER		
West Bend, WI 53095		414-338-0163	1 8	8500209	
6. GENUS AND SPECIES NAME	7. FAMILY NA	ME (Botanical)	FILING	9/16/85	
Glycine max Legu		ıminosae		TIME 2:00 A.M. X P.M.	
8. KIND NAME	. 9.	DATE OF DETERMINATION		AMOUNT FOR FILING \$ 1,800	
Soybean		Jan. 21, 1985	RECEIVED	DATE 8/1/85	
10. IF THE APPLICANT NAMED IS NOT A "PERSO partnership, association, etc.) Corporation	DN," GIVE FORM	OF ORGANIZATION (Corporation	FEES REC	AMOUNT FOR CERTIFICATE \$ 200 00 DATE December 22, 1986	
11. IF INCORPORATED, GIVE STATE OF INCORP	ORATION			DATE OF INCORPORATION	
Wisconsin 13. NAME AND ADDRESS OF APPLICANT REPRE			I	Dec. 19, 1963	
14 CHECK APPROPRIATE BOX FOR EACH ATTA (a) Exhibit A, Origin and Breeding History of (b) Exhibit B, Novelty Statement. (c) Exhibit C, Objective Description of Varie (d) Exhibit D, Additional Description of Var (e) Exhibit E, Statement of the Basis of App	of the Variety (See ety (Request form riety. Olicant's Ownershi	e Section 52 of the Plant Variety Pr I from Plant Variety Protection Off p.	ice.)		
15. DOES THE APPLICANT(S) SPECIFY THAT SEE SEED? (See Section 83(a) of the Plant Variety Pr	D OF THIS VAR	IETY BE SOLD BY VARIETY NAM Yes (If "Yes," answer	r items	16 and 17 below) X No	
16. DOES THE APPLICANT(S) SPECIFY THAT TH LIMITED AS TO NUMBER OF GENERATIONS		17. IF "YES" TO ITEM 16, BEYOND BREEDER SE	WHICI ED?	H CLASSES OF PRODUCTION	
Yes X No		Foundation	_=	Registered Certified	
18. DID THE APPLICANT(S) PREVIOUSLY FILE				Yes (If "Yes," give date) X No	
19. HAS THE VARIETY BEEN RELEASED, OFFE	RED FOR SALE	, OR MARKETED IN THE U.S. O	R OTF	Yes (If "Yes," give names of countries and dates) No	
20. The applicant(s) declare(s) that a viable sam plenished upon request in accordance with s	such regulations	as may be applicable.			
The undersigned applicant(s) is (are) the ow distinct, uniform, and stable as required in S Variety Protection Act.	Section 41, and	is entitled to protection under t	ne pro	ovisions of Section 42 of the Figure	
Applicant(s) is (arc) informed that false rep	resentation here	in can jeopardize protection and	resul		
SIGNATURE OF APPLICANT			`	6-4-85	
Monde X Mar	MANTER	<u> </u>		DATE SAVA	
SIGNATURE OF APPLICANT		7		1	

'DSR-287'

Dairyland Seed Co., Inc.

Exhibit A: Origin and Breeding History of Cultivar

1. 'DSR-287' is a soybean cultivar derived from a cross of 'Williams' x an unknown cultivar by the pedigree method of breeding.

2.	Generation	<u>Step</u>
	$\mathbf{F}_{\mathbf{O}}$	Hand Cross
	F^{\vee}	F, Increase
	\mathbf{F}_{2}^{1}	Selection
	F_3^2	Selection
	\mathbf{F}_{λ}^{J}	Selection
	F ₅	Increase
	F ₄	Yield Test
	F ₇	Yield Test-Increase
	F _o	Yield Test-Increase
	$\mathbf{F}_{\mathbf{O}}^{\mathbf{O}}$	Yield Test-Increase

Exhibit A - Origin and Breeding History of the Variety

1. 'DSR-287' is a uniform and stable soybean cultivar with commercially acceptable and predictable variant levels as follows:

for flower color, up to 0.35% white for pubescence color, up to 0.4% gray pubescence for hilum color, up to 1.27% consisting of gray, brown, and black for height, up to 0.1% talls (6-8" taller)

2. Statement on Stability - Generation of Reproduction

The following seed reproduction procedure should be used for 'DSR-287' to maintain its stability.

Each year or every other year, breeder seed will be produced from breeder seed of the previous generation. Each seed will be hand picked for uniformity, and the field rogued for any off-types.

Depending on the certifying state, foundation seed will be produced from this breeder seed for two generations in a foundation seed - recurrent foundation seed system or one year for each class in a foundation seed - registered seed system.

Certified seed will be but one generation.

'DSR-287'

Dairyland Seed Co., Inc.

Exhibit B: Novelty Statement

'DSR-287' is most similar to the cultivar 'DSR-212 in overall appearance, but differs in several characters. 'DSR-287' has shiny seed-coats, black hilum color, small-sized leaflets, and tan pod color, while 'DSR-212' has dull seed-coats, yellow hilum color, medium-sized leaflets, and brown pod color. The table below lists these differences:

	Seed-Coat	Hilum	Leaflet	Pod
<u>Cultivar</u>	Luster	Color	_Size	$\frac{\texttt{Color}}{}$
'DSR-287' 'DSR-212'	Shiny	Black	Small	Tan
DSK-212	Dull	Yellow	Medium	Brown

EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Dairyland Seed Co., Inc.	26502	DSR-287
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Cod	de)	FOR OFFICIAL USE ONLY
P.O. Box 958 West Bend, WI 53095		8500209
Choose the appropriate response which characterizes the vain your answer is fewer than the number of boxes provided Starred characters ** are considered fundamental to an adeq when information is available.	, place a zero in the first box w	hen number is 9 or less (e.g., 0 9).
1. SEED SHAPE:		
	1 1	(L/W ratio > 1.2; L/T ratio = < 1.2)
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)	Annual Control of the	
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)	politik kan kan periode paragan kan periode mengan kan kan kan kan kan kan kan kan kan k	and a superior of the superior
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebs	oy'; 'Gasoy 17') अवस्थात्मा (असम्बन्धाः सम्बन्धाः	
4. SEED SIZE: (Mature Seed)		
1 6 Grams per 100 seeds	and the second of the second o	
5. HILUM COLOR: (Mature Seed)	magnetic process for them to be not seen	
6 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Bla	ck 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green	en e	
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
1 = Low 2 = High		
8. SEED PROTEIN ELECTROPHORETIC BAND:		
1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)		
9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis') 2 = Green wit 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson';		Woodworth'; 'Tracy')
IO. LEAFLET SHAPE:		
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)	

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(Edition of 2-82 is obsolete.)

11.	LEAF	ET SIZE:
	1	1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')
12.	LEAF	COLOR:
	2	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')
: 		
13.	FLOW	ER COLOR: 14
	2	1 = White 2 = Purple 3 = White with purple throat
14.	POD C	DLOR:
545	1	1 = Tan 2 = Brown 3 = Black
15.	PLAN	PUBESCENCE COLOR:
\$	2	1 = Gray 2 = Brown (Tawny)
16.	PLANT	TYPES:
	2	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')
17. F	LANT	HABIT:
	3	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')
7 18. N	MATUF	ITY GROUP:
0	5	1 = 000 2 = 00 3 = 0 4 = I 5 5 = II 6 = III 6 = IV 7 = IV 8 = V 9 = VI 10 = VII 12 = IX 13 = X
19. 0	ISEAS	E REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)
		ERIAL DISEASES:
*		Bacterial Pustule (Xanthomonas phaseoli var. sojensis)
*	0	Bacterial Blight (Pseudomonas glycinea)
*		Wildfire (Pseudomonas tabaci)
F	لىكىيا UNGA	under de la companya de la companya L' DISEASES:
*	0	Brown Spot (Septoria glycines)
		Frogeye Leaf Spot (Cercospora sojina)
* . [Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify)
. [U:	Target Spot (Corynespora cassiicola)
l r	0	Downy Mildew (Peronospora trifoliorum var. manshurica)
إ	<u> </u>	Powdery Mildew (Microsphaera diffusa)
*	٥	Brown Stem Rot (Cephalosporium gregatum)
	0	Stem Canker (Diaporthe phaseolorum var. caulivora)

19	DISEA	SE REACTION	l: (Enter 0 = Not	Tested; 1 = Suscepti	into: 2 = Recistent	(Continued)		<u> </u>		75 T. 1
				resteu, r Ouscept	ible, 2 – Nesistalit,	(Continued)				e Merinagan Santa
•		GAL DISEASE	S: (Continued)				•			100
^		Pod and Sten	n Blight <i>(Diaporth</i>	e phaseolorum var; s	sojae)		:	- 		
		Purple Seed S	Stain (Cercospora I	kikuchii)				â		
		Rhizoctonia I	Root Rot (Rhizoc	tonia solani)						. >
		Phytophthora	Rot (Phytophtho	ora megasperma var.	sojae)			11 - 1 <u>00</u> 70	200 p. 176.3	4
★		Race 1	0 Race 2	1 Race 3	0 Race 4	0 Race 5	0 R	ace 6 0	Race 7	
	0	Race 8	0 Race 9	Other (Spe	ecify)			\		
	VIRA	L DISEASES:		L	•					
	0	Bud Blight (T	obacco Ringspot \	/irue)				\ \ \		
			c (Bean Yellow Mo							
. 🚣			•				-			1.
	믬	Cowpea Mosai	ic (Cowpea Chloro	otic Virus)						***
		Pod Mottle (B	ean Pod Mottle Vi	irus)				•		
*	0	Seed Mottle (S	Soybean Mosaic V	irus)						
	NEMA	ATODE DISEA	SES:							
		Soybean Cyst	Nematode (Hetero	odera glycines)				٠		
*	0	Race 1	0 Race 2	0 Race 3	0 Race 4	Other (S	pecify)			
	0	Lance Nemato	de (Hopiolaimus (Colombus)	All the second s			3		
*		Southern Root	t Knot Nematode	(Meloidogyne incog	nita)					
*		Northern Root	: Knot Nematode	(Meloidogyne Hapla	,					
,				eloidogyne arenaria						
*	لصا				,		è		•	
	띨		atode (<i>Rotylench</i>					2		
-		OTHER DISEA	ASE NOT ON FOR	RM (Specify):						
20, I	PHYSIOL	OGICAL RES	PONSES: (Enter	0 = Not Tested; 1 =	Susceptible: 2 = F	(esistant)				····
*			on Calcareous Soil	*				•		
		Other <i>(Specify)</i>				÷				
64 1	<u> </u>	and process of the contract of	1.1. A. Davids (1997), 3480	ia. Distance in the	Geralde Lesses de Lesses Li	on the first of the Assessment		tin i sagar time.	<u></u>	
27. 1		•	1 %		; 2 = Resistant)			e a jakot oleh	4.5	
		March Barrier	Beetle <i>(Epilachna</i> (the constraint	n dige at est	Association of the second	v 7 -	e e e		
		Potato Leaf Ho	pper <i>(Empoasca fa</i>	abae)		West of the second		1.1.37		
	، ال	Other (Specify)				And the second s		1944 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	il in a state of the state	See constitution
22. 1	NDICAT	E WHICH VAR	IETY MOST CLO	SELY RESEMBLE	S THAT SUBMIT	TED.				
	CHARA	CTER	NAME	OF VARIETY	СН	ARACTER		NAME OF VARI	TY	
PI	ant Shap	e			Seed	Coat Luster				. ,
Le	eaf Shape				Seed	Size		3		
Le	af Color			en e	Seed	Shape				····
Le	eaf Size				Seedl	ing Pigmentation		N. C. S.		
										~

FORM LMGS-470-57 (6-83)

TO THE PARTY OF

0300207

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/	
VARIETT				CM Width	CM Length	% Protein	% Oil	SEEDS	POD	
1 1 1 1 1 1 1 1 1										
Submitted									' · · · · · · · · · · · · · · · · · ·	
and the second second				a real contractions			<u> </u>			
Name of	1			e Alexander de la company	V					
Similar Variety		1. 1.64	Here it is a top		E A TARREST STA	į į				
Control of the Contro	1		and the second	and the second of the second	Company of the second	1. F1 1. F2 1.	e serie garinga	a like to the light of the second control of		

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

U.S. DEPARTMENT
AUG 1 1985
NO. 10 11 1985

PERCEIOULTURE

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DAIRYLAND SEED CO., INC.

P.O. Box 958, West Bend, WI 53095 3570 Hwy. H 414-338-0163





September 11, 1985

EXHIBIT E

Let this document serve as official notice that Dairyland Seed Co., Inc., P.O. Box 958, West Bend, Wisconsin 53095 is the owner of the soybean variety DSR-287. All ownership and marketing rights of DSR-287 belong to Dairyland Seed Co., Inc.



DAIRYLAND SEED CO., INC.

P.O. Box 958, West Bend, WI 53095 3570 Hwy. H 414-338-0163





October 28, 1986

8500209

PLANT VARIETY PROTECTION APPLICATION

EXHIBIT E

DSR-287 was originated and developed by the plant breeding team of Dr. Paul Sun, Dr. Bill Campbell, and Mr. Hunt Wiley. By agreement between these employees and Dairyland Seed Co., Inc., all rights to any invention, discovery, or development made by an employee are assigned to Dairyland Seed Co., Inc. No rights to such invention, discovery, or development are retained by the employees.